## UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.  First Inventor David		42P15056	
		d S. De Lorenzo, et al.	
Title METHO	DD AND	APPARATUS FOR MEMORY BANDWIDTH	
Eynress Mail I	ahel No	EV225525617HS	

ADI	PLICATION ELEMENTS	Mail Stop Patent Application			
	00 concerning utility patent application contents	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450			
	tal Form (e.g., PTO/SB/17)	7. CD-ROM or CD-R in duplicate, large table or			
	ms small entity status.	Computer Program ( <i>Appendix</i> )  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all of the following are necessary)			
- Descriptive ti - Cross Refere - Statement Re - Reference to or a compute	[Total Pages 20] rangement set forth below) tle of the Invention ences to Related Applications egarding Fed sponsored R & D sequence listing, a table, r program listing appendix	<ul> <li>a.</li></ul>			
- Brief Summa	of the Invention ry of the Invention				
Brief Description of the Drawings (if filed)     Detailed Description     Claim(s)     Abstract of the Disclosure		9. Assignment Papers (cover sheet & document(s))  10. 37 C.F.R. § 3.73(b) Statement Power of Attorney (when there is an assignee)  11. English Translation Document (if applicable)  12. Information Disclosure Copies of IDS			
4. ☑ Drawing(s) <i>(35 U.S.C. 113) [Total Sheets <u>5</u> ]</i>		Statement (IDS)/PTO-1449 Citations			
5. Oath or Declaration  a. Newly b. Copy f (for continuation Dangle Continuation Dangle Continuation Dangle Continuation Or application Or application Or application Of the disclosure of the	executed (original or copy)  rom a prior application (37 C.F.R. § 1.63(d)  ntinuation/divisional with Box 18 completer  DELETION OF INVENTOR(S)  Signed statement attached deleting inventor(s)  named in the prior application, see 37 CFR  1.63(d)(2) and 1.33(b).  ata Sheet. See 37 CFR 1.76  APPLICATION, check appropriate box, are ta Sheet under 37 CFR 1.76:  Divisional Continuation  Information: Examiner  ISIONAL APPS only: The entire disclosure of the price accompanying continuation or divisional application entity omitted from the submitted application parts.	13. ☐ Preliminary Amendment ☐ Application Amended 14. ☐ Return Receipt Postcard (MPEP 503) (Should be specifically itemized) (Should be specifically itemized) 15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. ☐ Other: - check in the amount of \$1,038.00 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			
Customer Number or Bar Code Label  *08791*  or Correspondence address below					
Name					
Address					
City	<del></del>	State Zip Code			
Country	Telep				
Name (Print/Type	Gregory D. Caldwell	Registration No. (Attorney/Agent) 39,926			
Signature	l left	Date 06/25/03			



## FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT

Complete if Known				
Application Number		_		
Filing Date				
First Named Inventor	David S. De Lorenzo			
Examiner Name				
Group/Art Unit				
Attorney Docket No.	42P15056			

Check   Credit card   Money Order   Other   None   Other   None   Other   Ot	FEE CALCULATION (continued)			
Deposit Account				
Deposit Account Number  Deposit Account Name  Blakely, Sokoloff, Taylor & Zafman LLP  The Commissioner is authorized to: (check all that apply)  Charge fee(s) indicated below  Credit any overpayments  Charge fee(s) indicated below, except for the filling fee to the above-identified deposit account  FEE CALCULATION  1. BASIC FILING FEE  Large Entity  Small Entity  Fee Paid  Code (5)  Fee Code (5)  Fee Code (5)  Fee Code (5)  Fee Code (6)  Surcharge - late provisional fliing fee or cath Non-English specification  Por For Illing a request for ex parte reexamination  1812 2,520  1812 2,520  1804 920 Requesting publication of SIR prior to Examiner action  Examiner action  1805 1,840 Requesting publication of SIR after Examiner action  1815 1,840 Sex Extension for reply within first month  1. BASIC FILING FEE  Large Entity  Small Entity  Fee Paid  1001 750 2001 375 Utility filing fee  1002 330 2002 165 Design filing fee  1003 520 2003 260 Plant filing fee  1003 520 2003 260 Plant filing fee  1004 920 Sex Indicated below Parter examination  1005 1,840 Sex Extension for reply within first month  1006 (5)  Fee Paid  1007 300 1007 1007 1007 1007 1007 1007 1				
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Deposit Account Name  The Commissioner is authorized to: ( check all that apply)  Charge fee(s) indicated below  Charge any additional fee(s) required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.  Charge fee(s) indicated below, except for the filling fee to the above-identified deposit account  FEE CALCULATION  1252  130  2053  130  Non-English specification  1812  2,520  1812  2,520  1812  2,520  1814  2,520  1804  920 * Requesting publication of SIR prior to Examiner action  Examiner action  1805  1,840 * Requesting publication of SIR after Examiner action  1251  110  2251  55  Extension for reply within first month  1252  140  2252  205  Extension for reply within third month  1254  1255  1254  1,450  1255  1,970  1255  1,970  1255  1,970  1255  1,970  1001  750  2001  375  Utility filing fee  750.00  1002  330  2002  165  Design filing fee  1403  1403  1404  1404  1404  1405  1405  1406  1406  1407  1407  1407  1407  1407  1408  1408  1409  140	7			
The Commissioner is authorized to: ( check all that apply)  Charge fee(s) indicated below  Charge any additional fee(s) required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.  Charge fee(s) indicated below, except for the filling fee to the above-identified deposit account  FEE CALCULATION  1805  1804  920				
Charge fee(s) indicated below Credit any overpayments  Charge any additional fee(s) required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.  Charge fee(s) indicated below, except for the filling fee to the above-identified deposit account  FEE CALCULATION  1. BASIC FILING FEE  Large Entity Small Entity  Fee Fee Fee Fee Fee Fee Fee Pee Description  Fee Paid  1001 750 2001 375 Utility filing fee  1003 520 2003 260 Plant filling fee  1804 920* Requesting publication of SIR prior to Examiner action  1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR after Examiner action  1805 1,840* Requesting publication of SIR				
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1251   110   2251   55   Extension for reply within first month	- 1			
1. BASIC FILING FEE       1253       930       2253       465       Extension for reply within third month         Large Entity       Small Entity       1254       1,450       2254       725       Extension for reply within fourth month         Fee Fee Fee Code (\$)       Fee Paid       1255       1,970       2255       985       Extension for reply within fifth month         1001 750 2001 375       Utility filing fee       1404       320       2401       160       Notice of Appeal         1002 330 2002 165 Design filing fee       1402       320       2402       160       Filing a brief in support of an appeal         1003 520 2003 260 Plant filing fee       1451 1510       2451 1510       Petitien to institute a public we proceeding				
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Fee   Fee   Code   (\$)   Fee   Paid   1255   1,970   2255   985   Extension for reply within fifth month   1404   320   2401   160   Notice of Appeal   1002   330   2002   165   Design filling fee   1402   320   2402   160   Filling a brief in support of an appeal   1403   280   2403   140   Request for oral hearing   1461   1510   2451   1510   Rejition to institute a public use proceeding.	_[			
Code         (\$)         Code         (\$)           1001         750         2001         375         Utility filing fee         1404         320         2401         160         Notice of Appeal           1002         330         2002         165         Design filing fee         1402         320         2402         160         Filing a brief in support of an appeal           1003         520         2003         260         Plant filing fee         1451         1510         2451         1510         Request for oral hearing	_			
1001 750 2001 375 Utility filing fee 750.00 1404 320 2401 160 Notice of Appeal 1402 320 2402 160 Filing a brief in support of an appeal 1403 520 2003 260 Plant filing fee 1403 280 2403 140 Request for oral hearing	-			
1002 330 2002 165 Design filing fee 1402 320 2402 160 Filing a brief in support of an appeal 1403 280 2403 140 Request for oral hearing				
1003 520 2003 260 Plant filing fee 1403 280 2403 140 Request for oral hearing				
1451 1 510 2451 1 510 Petition to institute a nublic use proceeding				
1004 750 2004 375 Reissue filing fee				
1005 160 2005 80 Provisional filing fee 1452 110 2452 55 Petition to revive - unavoidable				
SUBTOTAL (1) (\$) 750.00 2453 650 Petition to revive - unintentional				
1501 1,300 2501 650 Utility issue fee (or reissue)	_			
2. EXTRA CLAIM FEES Extra Fee from	_			
Ctaims below Fee Paid 1503 630 2503 315 Plant issue fee	_			
Independent 130 2 = 10 X 18.00 \$286.00 140 130 Petitions to the Commissioner	_			
Claims 3 3 0 X 84.00 = \$0.00 1807 50 Prosessing fee under 37 CFR 1.17(q)	_			
Multiple Dependent = 1806 180 Submission of Information Disclosure Stmt	_			
Large Entity Small Entity 8021 40 Recording each patent assignment per property (times number of properties)	1			
Fee Fee Fee Fee Fee Description  Code (\$) Code (\$)  1809 750 1809 375 Filing a submission after final rejection	-			
1202 18 2202 9 Claims in excess of 20 (37 CFR § 1.129(a))	-			
1201 84 2201 42 Independent claims in excess of 3 1810 750 2810 375 For each additional invention to be examined (37 CFR § 1.129(b))				
1203 280 2203 140 Multiple Dependent claim, if not paid	_			
1204 84 2204 42 "Reissue independent claims over original	_			
of a design application				
Other fee (specify)	7			
SUBTOTAL (2) (\$) 288.00	<u> </u>			
*Reduced by Basic Fling Fee Paid SUBTOTAL (3) (\$)  **or number previously paid, if greater, For Reissues, see below	$\Box$			
SURMITTED BY  Complete (if applicable)	=			

SUBMITTED BY Complete (if applicable					
Name (Print/Type)	Greg ry D. Caldwell	Registration No. (Attorney/Agent)	39,926	Telephone	(503) 684-6200
Signature		MAN /		Date	06/25/03